

**REMARKS**

Claims 1, 2, 5–7, 10, and 13 are pending in this application. By this Amendment, claim 1 is amended, and claims 4, 8, 9, and 12 are canceled. Support for the amendments to claim 1 may be found, for example, in the specification at page 14, lines 21–22. No new matter is added.

In view of the foregoing amendments and following remarks, reconsideration and allowance are respectfully requested.

**I. Claim Objections**

The Office Action objects to claim 9. By this Amendment, claim 9 is canceled, rendering the objection moot.

**II. Rejections Under 35 U.S.C. §103**

**A. Liu and Chen**

The Office Action rejects claims 1, 2, 4, 6–10, and 12 under 35 U.S.C. §103(a) as obvious over Liu et al., Chem. Mater., 13:1984–1991 (2001) ("Liu") in view of U.S. Patent Application Publication No. 2004/0106003 to Chen et al. ("Chen"). By this Amendment, claims 4, 8, 9, and 12 are canceled, rendering their rejection moot. As to the remaining claims, Applicants respectfully traverse the rejection.

The Office Action asserts the subject matter of the claims would have been obvious in the absence of unexpected results. As explained in the Applicants' specification, at paragraph [0008], the inventors discovered that by introducing binaphthyl derivative structural units into the backbone of an electroluminescent  $\pi$ -conjugated polymer, (i) bends can be introduced into the  $\pi$ -conjugated polymer, and (ii) despite the expectation that a polymer that has bends in it generally has a decreased glass transition point, the steric hindrance caused by the binaphthyl derivative structural units helps keep the glass transition point high and significantly stabilizes the morphology of the polymer. The combination of Liu and Chen do not teach or

suggest these effects obtained by the claimed invention. Accordingly, the claimed invention exhibits results that are unexpected over the teachings of the applied references.

For at least these reasons, Liu and Chen would not have rendered obvious claim 1. Claims 2, 6, 7, and 10 depend from claim 1 and, thus, also would not have been rendered obvious by Liu and Chen. Reconsideration and withdrawal of the rejection are respectfully requested.

**B. Liu, Chen, and Grazulevicius**

The Office Action rejects claims 5 and 13 under 35 U.S.C. §103(a) over Liu and Chen in view of Grazulevicius et al., Prog. Polym. Sci., 28:1297–1353 (2003) ("Grazulevicius").

Applicants respectfully traverse the rejection.

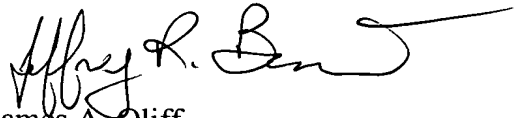
Claims 5 and 13 each depends from and requires all of the limitations of claim 1. The Office Action provides no suggestion or basis for concluding that Grazulevicius teaches or suggests that the results obtained by the claimed invention discussed above would have been expected. Accordingly, reconsideration and withdrawal of the rejection are respectfully requested.

**III. Conclusion**

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of the application are earnestly solicited.

Should the Examiner believe that anything further would be desirable to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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